

# SYSTEM AND METHOD FOR OPTIMIZING THE EFFICIENCY OF BASE-TO-VEHICLE COMMUNICATION

## Abstract

System and method for optimizing the efficiency of base-to-vehicle communication. The method includes beginning a call initiation step for establishing a wireless communication between a base station and a remotely located vehicle. Conditions are sensed at which a prospective wireless communication would be conducted. The sensed conditions are analyzed to determine whether predetermined criteria are met for initiation of the prospective wireless communication. It is then chosen to initiate a wireless communication when the predetermined criteria for initiation of the prospective wireless communication is satisfied based on the analysis of sensed conditions. It may be required that from the sensed conditions it be determined that the remotely located vehicle is traveling below a predetermined threshold speed. Alternatively, the determining condition may be transmission quality for the prospective wireless communication. Based on these and other suitable criteria, variable amounts of electronic data may be

sent from the remotely located vehicle to the base station. In another instance, it may be required that from the sensed conditions it be determined that the calculated cost of the prospective wireless communication meets predetermined parameters.